

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 12/17/99
Date Received: 12/09/99
Project: Metro Self Monitor, PO# M63158
Date Samples Extracted: 12/13/99
Date Extracts Analyzed: 12/15/99

**RESULTS FROM THE ANALYSIS OF THE WATER SAMPLE
FOR CHROMIUM, COPPER, NICKEL, ZINC
USING METHOD 6010**

Samples Processed Using Method 3005A
Results Reported as mg/L (ppm)

<u>Sample ID</u>	<u>Chromium</u>	<u>Copper</u>	<u>Nickel</u>	<u>Zinc</u>
M63158	0.37	0.41	0.46	0.05
Method Blank	<0.05	<0.05	<0.05	<0.05

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QUALITY ASSURANCE RESULTS FOR TOTAL METALS BY INDUCTIVELY COUPLED PLASMA (ICP) (METHOD 6010)

Laboratory Code: 912036-01 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference	Acceptance Criteria
Chromium	mg/L (ppm)	0.37	0.35	6	0-20
Copper	mg/L (ppm)	0.41	0.39	5	0-20
Nickel	mg/L (ppm)	0.46	0.43	7	0-20
Zinc	mg/L (ppm)	0.05	0.05	0	0-20

Laboratory Code: 912036-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	% Recovery MS	% Recovery MSD	Acceptance Criteria	RPD
Chromium	mg/L (ppm)	5	0.37	100	103	80-120	3
Copper	mg/L (ppm)	5	0.41	93	93	80-120	0
Nickel	mg/L (ppm)	10	0.46	102	104	80-120	2
Zinc	mg/L (ppm)	5	0.05	110	114	80-120	4

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	% Recovery LCS	% Recovery LCSD	Acceptance Criteria	RPD
Chromium	mg/L (ppm)	5	98	102	80-120	4
Copper	mg/L (ppm)	5	96	102	80-120	6
Nickel	mg/L (ppm)	10	100	104	80-120	4
Zinc	mg/L (ppm)	5	102	108	80-120	6

FRIEDMAN & BRUYA, INC.
3012 16th Avenue West
Seattle, WA 98119-2029
(206) 285-8282

DH All 12-9-99

SAMPLE CHAIN OF CUSTODY

Send Report To:

Company Alaskan Copper Works Contact Gerald A. Thompson
Address 628 Harvard St
City, State, Zip Seattle wa 98134
Phone # 206-382-8379 FAX # 206-382-4309 Date 12-9-99

SITE NO.

PROJECT NAME

PURCHASE ORDER #

7238

metro self monitor

IN 63158

SAMPLERS (signature)

PROJECT LOCATION

REMARKS

SAMPLE DISPOSAL INFORMATION

☐ Dispose after 30 days
☒ Return Samples
☐ Call for Instructions

Sample #	Date/Time Sampled	Type of Sample	# of Jars	Lab Sample #	Analyses Requested
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[illegible]

SIGNATURE

PRINT NAME

COMPANY

Date _____

Time

Relinquished by:

GERARD A Thompson

ACW

88/3/21

10:17

Received by:

Fred Wolf

F & B, Inc.

12-9-99

10:20

Relinquished by:

Received by:

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Charlene Jensen, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
FAX: (206) 283-5044
e-mail: fbi@isomedia.com

December 17, 1999

DUPLICATE COPY

INVOICE #99ACU1217-1

Accounts Payable
Alaskan Copper Works
628 South Hanford St.
Seattle, WA 98134

RE: Project Metro Self Monitor, PO# M63158: Results of testing requested
by Gerry Thompson for material submitted on December 9, 1999.

1 water sample analyzed for
Chromium, Copper, Nickel, and Zinc
using Method 6010 @ \$80 per sample

\$ 80.00

Amount Due

\$ 80.00

PLEASE NOTE: As a convenience for our valued clients, we can accept credit cards (VISA, MasterCard or government purchasing cards) for payment on our invoices. Please contact our office if you would like to take advantage of this service.

FEDERAL TAX ID #(b) (6)

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Charlene Jensen, M.S.
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3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
FAX: (206) 283-5044
e-mail: fbi@isomedia.com

December 17, 1999

Gerry Thompson, Project Manager
Alaskan Copper Works
628 South Hanford St.
Seattle, WA 98134

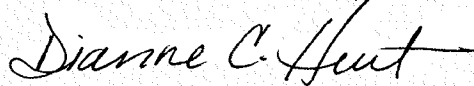
Dear Mr. Thompson:

Included are the results from the testing of material submitted on December 9, 1999 from your Metro Self Monitor, PO# M63158 project. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Dianne C. Hurt
Project Manager

Enclosures
ACU1217R.DOC